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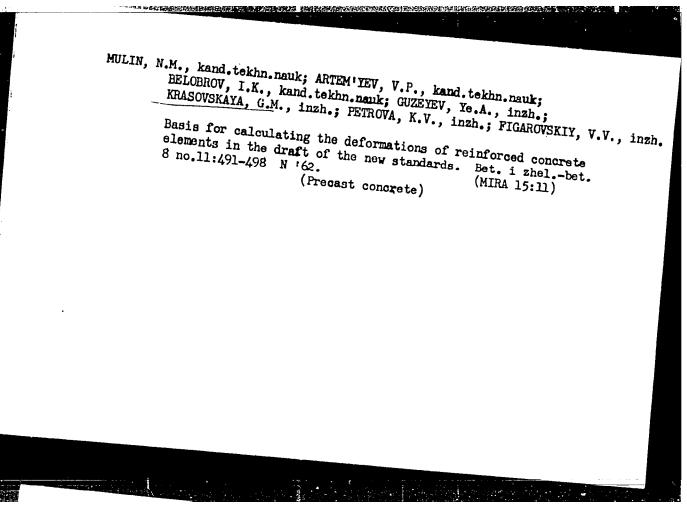
MULININ, N.M., kand.tekhn.nauk; DMITRIYEV, S.A., kand.tekhn.nauk; KRASOVSKAYA,G.M., inzh.; GVOZDEV, A.A., doktor tekhn.nauk,prof.; KLIMOVA, G.D., red.izd-va; RUDAKOVA, N.I., tekhn. red

[Temporary instructions on the use of thermally strengthened ribbed cable in prestressed concrete elements] Vremennye ukazaniia po primeneniiu termicheski uprochnennoi katanki periodicheskogo profilia v predvaritel'no napriazhennykh zhelezobetonnykh konstruktsiiakh.

Moskva, Gosstroiizdat, 1962. 11 p. (MIRA 15:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo.2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Gvozdev).

(Concrete reinforcement)



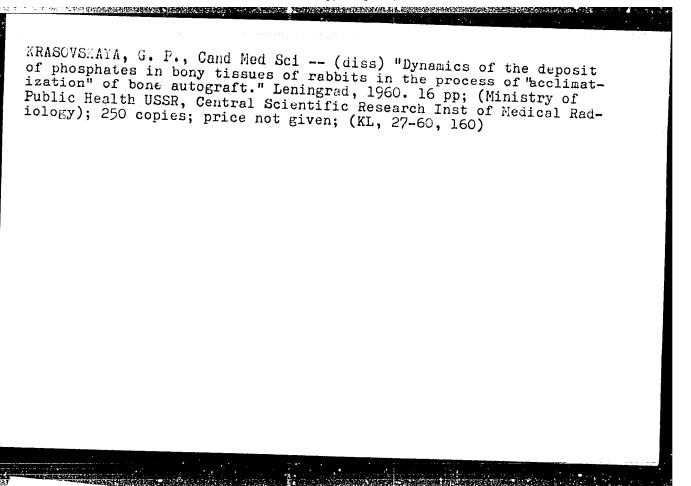
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Dynamics of the deposition of mineral phosphorus salts in the bone tissue during the taking of bone grafts. Biul. ekep. biol. i med. 40 no.11:37-40 N '55. (MIRA 9:1)

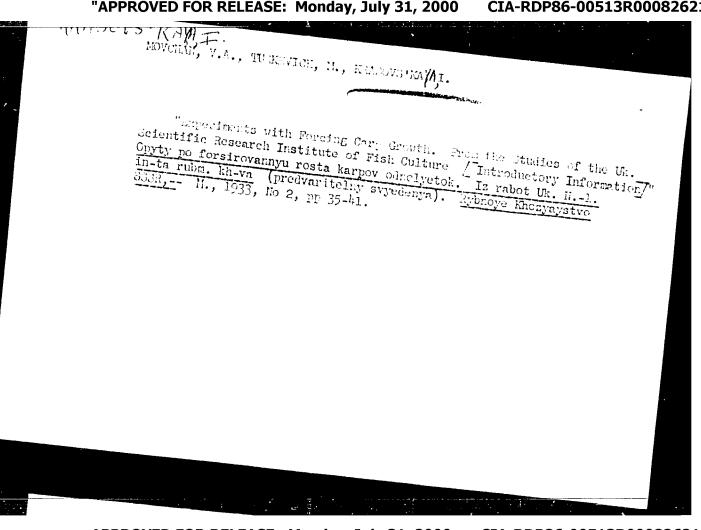
1. Is fisiologicheskoy laboratorii (zav.-kandidat biologicheskikh nauk meditsinskikh nauk v.S. Balakina) Ministerstva zdravookhraneniya RSFSR (TRANSPIANTATION, exper.

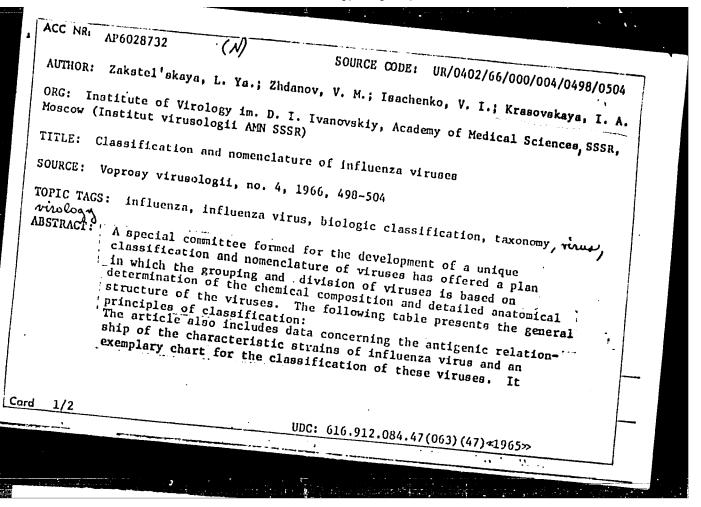
bones, deposition of mineral phosphorus salts during taking of grafts)

(BONE TISSUE, transplantation, phosphorus salts deposition during taking of grafts)
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KRASOVSKAYA, G.P. and the second Dynamics of the depostition of mineral phosphorus salts in a living transplantat in radiation sickness. Khirurgiis 34 no.2:121-125 F 158. (MIRA 11:4) 1. Iz Leningradskogo instituta travmatologii i ortopedii (dir. prof. V.S.Balakina) (BOME AND BONES, transpl. dynamics of mineral phosphorus salt deposit, eff. of radiations in rabbits (Rus)) (RADIATIONS, eff. on mineral phosphorus salt deposit in hone transplantat in rabbits (Rus)) (PHOSPHORUS, metab. dynamics of mineral salt deposit in bone transplantate, eff. of radiations in rabbits (Rus))







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KRASOVSKAYA, I.A.

"Thermolabile component of normal serum as a factor for intensification of specific antigen-antibody connection."

Report submitted to the Intl. Congress for Microbiology Montreal, Canada 19-25 Aug 1962

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

PISTATA, L.A., Inzn.; Regionerate. ..G., char.big prepodavatelt

Lispatcher control systems for distributing motor vehicles along
the crunes of container planforms. Trudy trai. elektronekin. brai.

(MIEL 18:7)
inch. whel. dor. transp. no.3:26-34. 163.

REZER, S.M., kand. tekhn. nauk (Sverdlovsk); RAPPOPORT, M.A. (Sverdlovsk); KRASUVSKATA, I.G., inzh. (Sverdlovsk)

Automatic systems of dispatcher control in freight yards. Zhel. dor. (MIRA 18:9) transp. 47 no.9139-41 S '65.

1. Glavnyy inzh. stantsii Sverdlovsk-Tovarnyy (for Rezer).
2. Nachal'nik tekhnicheskogo otdela Sverdlovskoy dorogi (for Rappoport).

s/072/63/000/004/004/005 A051/A126

AUTHORS:

Krasovskaya, I. M., Kulikova, Ye. N., Engineers, Ryabov, V. A.,

Candidate of Technical Sciences

TITLE:

The effect of the composition of hydrofluoric (HF) acid baths on

the hardening of silicate glass

PERIODICAL: Steklo i keramika, no. 4, 1963, 13 - 15

A detailed study was made of the effects of HF acid concentration, temperature, the presence of salts of fluorsilicio and other acids, on the hardening of silicate glass, with main emphasis placed on the study of the concentration of the HF acid. The purpose of the study was to clarify the nature of the glass hardening process in acid baths, the chemical process taking place on the glass surface and the effect of the quality of the glass surface itself. Obtained experimental data coincide with those of Cuzhavin who had found that the strength of glass depends on the concentration of the HF acid. It is concluded that the hardening of glass by processing it in a HF bath is accomplished not only by removing the defective surface layer; when studying the effect of

Card 1/2

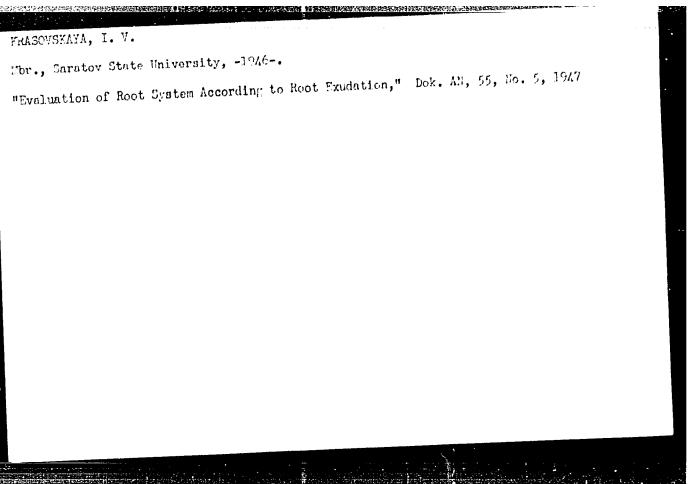
E/072/63/000/004/004/005 A051/A126

The effect of the composition of ...

hardening, one has to consider the role played by the topochemical processes on the glass-acid interface. At present, no direct proof is available on the structural change of the glass surface, but the rather high increase of the strength of the silicate glass when processed in a 7.4 n solution of HF acid is attributed to it. It is recommended that this subject be studied in more detail including the effect of the pH and pF of acid baths on the degree of glass hardening. There are 3 figures.

ASSOCIATION: Institut Stekla (Glass Institute)

Card 2/2



KRASOVSKAYA, I. V. I SHUTOVA, Ye. A.

30390

Vliyaniye a-naftiluksusnoy kisloty na kornyeobrazovaniye u yarovoy pshyenitsy. Trudy in-ta fiziologii rastyeniy im timiryazyeva, T. VI. Vyp. 2, 1949, S. 138-142.—Bibliogr: 17 Hazv.

S0: Letopis' No. 34

KRASOVSKAYA, IRINA VLADIMIPOVNA

Agriculture & Plant & Animal Industry

What you should know about plants. Saratovskoe otl. gos. izd-vo, 1950.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED

With Utilization of Mycorhiza in Flantin; Asorns in the Arid Invironment of Jaratov Oblast's, Les i Step! (Forest and Steppe), No. 2, Fr 29-5, 1950.

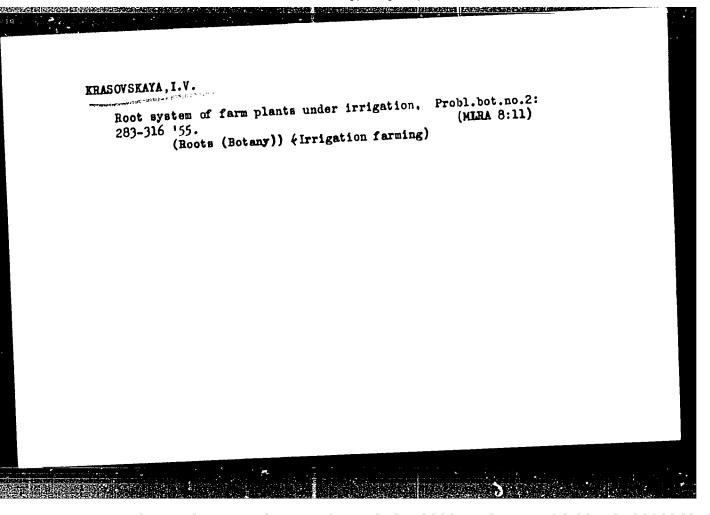
APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100

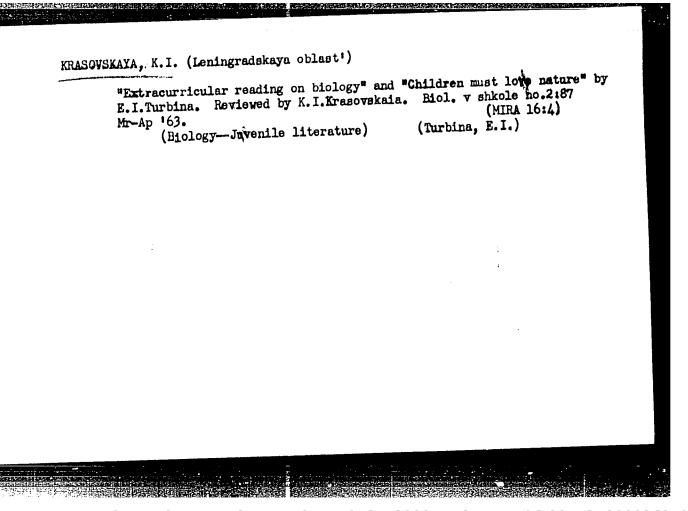
KRASOVSKAYA, I. V., KUMAKCV, V. A.

Wheat

Correlation of main and secondary shoots of shoots of spring wheat., Trudy Inst., fiziol rast. 7, no. 2, 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED





POPOV, V.A.; POPOV, Yu.K.; PRIYEZZHAV, C.P.; KULAYEVA, T.M.; YOROMOV, N.P.;
GARANIN, V.I.; NAZAROVA, I.V.; IZOTOVA, T.Ye.; KRASOVSKAYA, L.A.

Results of studying the animal kingdom in the flood zone of the Kuybyshov Hydroelectric Power Station. Trudy Kazan, fil. AN SSSR.

Ser. biol, nauk no.3:7-217 '54 (MLRA 10:5)

(KUYPSKEV RESERVOIR REGION-ZOOLOGY)

(WILD LIFE, CONSERVATION OF)

CIA-RDP86-00513R000826210 "APPROVED FOR RELEASE: Monday, July 31, 2000 对的连续的时候的最后的变形,但是是是自然的人的对象,从一个不是的现代。 医神经病 计表现象检验机构的现代 经实现法统约的 医多种性神经炎

KRASOUSKAMA, LR

48-4-13/48

SUBJECT:

USSR/Luminescence

AUTHORS:

Lukantsever Yu.L. and Krasovskaya L.R.

TITLE:

Investigation of Electron Localization Levels in ZnS-Cu-Phosphor (Issledovaniye urovney lokalizatsii elektronov v

fosfore ZnS-Cu)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21 #4, pp 511-520 (USSR)

ABSTRACT:

Capture levels in the ZnS-Cu-phosphor were investigated by

means of optical methods. The phosphor luminescence was excited by the filtered light

of a PRK-4 mercury tube (365 mm). The Luminescent light was incident, through a filter, on a photoelectronic multiplier of the FEU-17 type connected with an amplifier.

The following conclusions were drawn from the results of in-

1. Determination of energies necessary for liberation of electrons from the deepest localization levels was performed

Card 1/2

by 3 independent methods:

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TITLE:

Investigation of Electron Localization Levels in ZnS-Cu-Phosphor (Issledovaniye urowney lokalizatsii elektronov v fosfore ZnS-Cu)

- a. By analysis of thermal de-luminescence curves,
- b. By analysis of regularities in the phosphor decay

in the region of temperature quenching, and

- c. By analysis of the temperature-dependence of the light-sum in the region near temperature quenching.
- All three methods yield results agreeing well within the limits of measurement accuracy.
- 2. Within the temperature range, in which the phosphor behaves ideally, one can apply the method of decay analysis for the determination of the energy depth of these levels. The report was followed by a discussion.

The bibliography lists 9 references, of which 7 are Slavic (Russian).

INSTITUTION: Tomsk State University.

PRESENTED BY: By Vergunas F. I.

SUBMITTED: No date indicated.

AVAILABLE: At the Library of Congress.

Card 2/2

AU THORS:

Vorganas, F.I. and Iranova Liya, L.R.

507/51-5-2-10/26

· TITLE:

Docus of Aftergion of ZnS-dn Phosphore in log J, log t and log J, log (1 + pu) Coorling les (Zuarmaniya posles vacheriya fallorov ZnS-Ca

v koordina takh lg J, lg k i lg J, lg(1 + pt))

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Mr 2, pp 162-166 (USSR)

ABSTRACT:

According to Adirovich's theory (Ref 1) in an "ideal" phosphor, i.o. a phospher in which afterglow is due to localization levels of one depth and emission coeffices of one type, dependence of the afterglow intensity J on that this approximated by a straight line (which represents a hyperbola) only in coordinates log J, log (1 + pt), where p is the probability of thermal liberation of localized electrons. In log J, log t coordinates this dependence should be carvilinear. Experimental dependences of J on t may be rectilinear in log J, log t coordinates, in apparent contradiction with Adirovich's theory. Antonov-Romanovskiy (Ref 2) deduced from this that the decay law of Addrevich is not supported by experiment. This conclusion seems to be pramature. Adirovich's theoretical decay law was obtained for an ideal phosphor and it must be compared with experiment only under

Card 1/3

such conditions when a real phosphor behaves ideally. The aim of the present investigation was to compare Adirovich's theory with

SOV/51-5-2-10/26

Decay of Afterglow of 2nS-Cu Phosphore in log J, log t and log J, log (1 + pt)

emperiment using ZnS-Cu phosphor with 10-4g/g of Cu under conditions when it behaves as an ideal phosphor. Analysis of thermolumines cence curves suggests that at temperatures above 1690K the phosphor used behaves ideally. To obtain the decay curves the phosphor was excited until the steady state was reached, then excitation ceased and measurements were started one second after that. The results obtained tre given in Fig la in log J, log t coordinates. It is found that at temperatures higher than 2740K curvilinear dependences were obtained but at lower traperatures (170 and 235°K) the curves were rectilinear. These rectilinear dependences obtained at 170 and 235°K contradict an earlier result that the ZnS-Cu phosphor behaves ideally above 1690K. This circumstance is explained by the presence of shallow levels in addition to the 0.23 eV level, at these temperatures. When these shallow levels were pre-captied by a special procedure it was found that the curves in the 192-235°K region were also carvilinear (see Fig 1b). Both series of curves shown in Fig 1 were reconstructed in log J, log (1 - pt) coordinates and are given in Fig 2. Comparison of

Card 2/3

SOV/51-5-2-10/26

Decay of Afterglow of ZnS-Cu Phosphors in log J, log t and log J, log (1 + pt) Goordinates

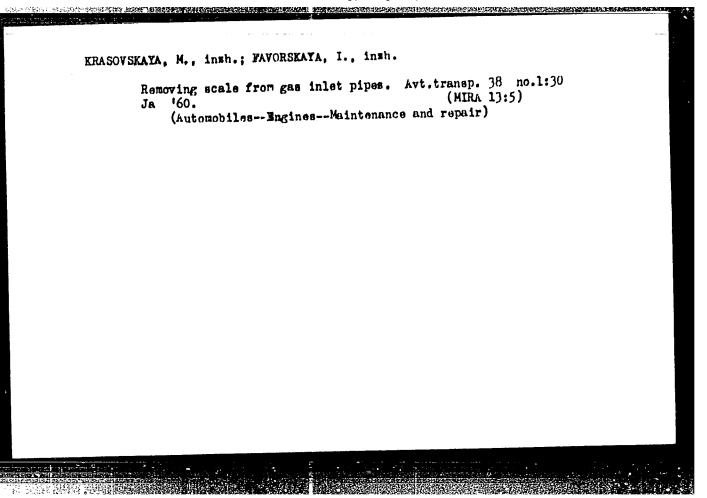
Figs 1 and 2 shows that the carvilinear dependences in log J, log t coordinates become rectilinear in log J, log (1 + pt) coordinates. The straight lines in log J, log t coordinates, which represent hyperbolae become curvilinear in log J, log (1 + pt) coordinates. This confirms Adirevients theory for ideal phosphore. Similar results were obtained for a ZnS-On phosphor prepared in the absence of oxygen. There are 2 figures, 1 table and 4 Soviet references.

ASSOCIATION: Gor'kovskiy gosudarstvonnyy universitet (Gor'kiy State University)

SUBJITTED: October 4, 1957

1. Phosphors--Luminescence 2. Luminescence--Decay 3. Phosphors--Exci-

card 3/3 tation



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

EWG() / EWT(1) / EWP(e) / EWT(m) / EPF(c) / EWP(1) / EPF(n) - 2 / EWG(m) / EPA(w) - 2 / L 41772-65 Pz-6/Po-4/Pab-10/Pr-4/Ps-4/Pi-4 IJP(c) RWH/WW/AT/WH T/EWP(b)/EPR 8/0170/65/008/001/0027/0030 AP5005759 ACCESSION NR: AUTHOR: Alferov, V. I.; Krasovskaya, N. I. TITLE: Experimental investigation of the occurrence of vapor jets in large-current arcs SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 1, 1965, 27-30 TOPIC TAGS: are discharge, are discharge plasma, vapor jet, velocity distribution, pressure distribution ABSTRACT: The experiments were performed in a set-up consisting of an arc struck between two graphite electrodestand fed from a dynamo with maximum terminal voltage 400 V. The current ranged from 500 to 1000 amperes. A ballast resistor was used to stabilize the current. Oscillographs were taken of the current in the discharge. The cathode was a graphite cylinder 35 mm with conical tip, and the anode configuration was either cylindrical (50 mm diameter) or in the form of a diaphragm with cylindrical opening (10 mm), depending on the experiments. The structure of the channel was hotographed with a motion-picture camera at 100 frames/second through various fill re. The results have shown that jets of electrode material in the erc Card 1/2

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APS005759 ACCESSION NR:

induce the flow of surrounding cold air. The momentum carried by the plasma jet was measured with a nozzle-type anode. Plots were constructed of the dependence of the pressure drop on the arc combustion time, and of the distribution of the pressure over the length of the nozzle for different current strengths and for different differences between electrodes. The results showed that the pressure distribution was the same under all operating conditions. An explanation is proposed for the observed turbulence of the arc. It was also shown that the dimensionless jet velocity, plotted as a function of the distance to the cathode, is the same for all currents. This leads to the conclusion that the velocity profiles in the arc are all similar, and any discrepancy in the dimensionless velocity profile at large distances is due to the spreading of the jet. This agrees with theoretical calculations. It is also deduced that the velocity profiles transverse to the jet are also similar. Discrepancies between the velocity curves at large distances can also be attributed to different proportions of cold air in arcs at different current strengths. Orig. art. has: 4 figures.

ASSOCIATION: None

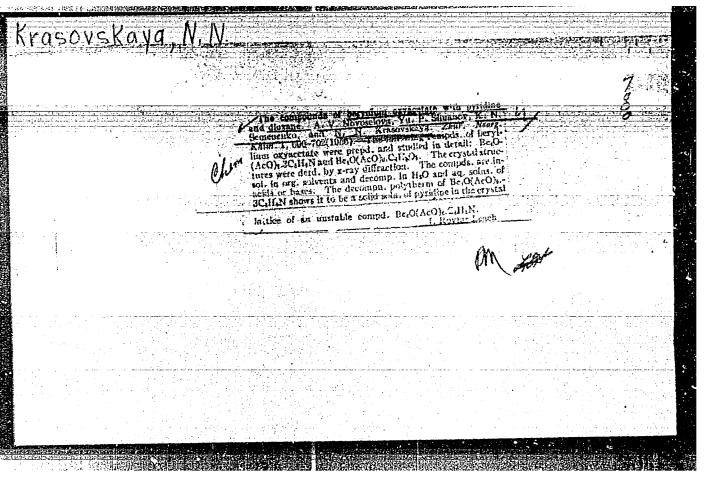
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OTHER:

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KRASOUSKAYA MIN

USSR / Inorganic Chemistry. . Complex Compounds

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 7797

: Novoselova, A.V., Semenenko, K.N., Krasovskaya, N.N. and Author

Simenov, Yu.P.

: Moscow University Inst

: Beryllium Oxyacetate. Communication 2. Concerning Some Title

Froporties of Boryllium Oxyacotato-Pyridino Compounds

Orig Fub : Vestn. Mosk. Un-te, 1956, No 3, 87-93

Abstract : Barium oxyformato, Bo14(HCCO)6 (I), has been synthesized and investigated and the formation and the properties of compounds of I, beryllium oxyccoteto (Be40(CH3CCO)6 (II), and beryllium oxypropionate (Be40(Ch3CHCOO)6(III) with pyridine (IV) and dioxane (V) have been studied. I was prepared by treating Be hydroxide or bicarboneto with formic acid, followed by the decomposition of the nromal Be formate which is obtained in vacuo at 250 - 260°. At 250°, the yield of pure I

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R00081

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USSR / Inorganic Chemistry. Complex Compounds

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, No 7797

: is 92%; when the temporature is raised to 3500, the yield of I drops to 70 - 75% and the product is conteminated by pyrolysis. The thermal enalysis of I has not shown any transitions accompanied by thermal effects. X-ray analysis has shown I to be isomorphic with the high-temperature medification II; the lattice perameters of II ero; a 11.61 plus/minus 0.03, b 7.79 plus/minus 0.03, c 14.19 plus/minus 0.03 A.U., 1 1.645, n 4.01. The solubility of I in IV does not exceed 0.5 - 06% and no compound formation is observed between I and IV. The compound formed by II with IV in the ratio 1/3 (VI) slowly loses IV even at room temperature; at 108-1100, the loss of IV attains its maximum rate. The first and second molecules of IV separate very rapidly; the third molecule of IV takes three to four times longer to separate. When the evolution of IV is completed, a partial decomposition of II takes place. The x-ray analysis of VI and of its thermal decomposition products shows that VI can be considered as

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USSR / Inorganic Chemistry. Complex Compounds

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Abs Jour : ref Zhur - Khimiya, No 3, 1957, No 7797

e a solid solution of IV in II; because of steric hindrance offects, beta-picoline does not form a compound with II.

When I, II, and III are dissolved in V, a procipitate of the everall formula Bo40(RCOO)6.C4HsO2 is formed. The diexenates of the Be exy-salts are light, finely crystalline white powders, insoluble in organic solvents and soluble in water; in the latter case, decomposition is observed. Prolonged agitation in OHClz, acotone, C6Hg, and other leads to a destruction of the diexenates and the formation of exy-salts. The solubility of the diexenates of I, II; and III in Vincroases with increasing molecular weight. The compound formed by II with V (1/1) is stable at 20 - 85° in the presence of the liquid phase. When exposed to the atmosphere, the diexenates of I, II; and III gradually lose V; on hearing, the loss of V molecules is accompanied by the splitting off of part of the acid residues; at 300° distillation begins and BoO remains.

Card : 3/4

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

CHEKNYAYEV, I.I.; KRASOVSKAYA, N.N. Part 1: Geometrical isomerism of tetrevalent platimum diammino-dinitrato dichlorides. Zhur. neorg. khim. 2 10:2349-2359 0 57. (MIRA 11:3) (Platinum chlorides) (Isomers)

ERASCUSEAVA, N.E., Cand Chem Sci -- (cinc) "Study of the transoffect of hydroxy and nitragroup in complex compounds of undrivolent platinum."

Nos, 1958, 26 pp (Acad Sci USSR. Inst of Cameral and Inorganic Chem im N.S. Kurnakov), 150 copies (KL, 46-80, 138)

-10 -

AUTHORS:

Chernyayev, I. I., Krasovskaya, N. N. SOV/78-3-9-6/38

TITLE:

On the Isomerism of the Dihydroxo-Diamino-Dichloride of Tetra-valent Platinum (O geometricheskoy izomerii digidroksodiammino-

dikhloridov chetyrekhvalentnoy platiny)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2024-2038

(USSR)

ABSTRACT:

In the present paper the trans-effect of the hydroxyl in isomeric dihydroxo-diamino-dichloride of tetravalent platinum was investigated. The co-ordination theory assumes that the following geometrical isomers are existing for the compound Pt(NH₃)₂Cl₂(OH)₂:

Card 1/3

By the determination of the pH-value and the molecular electric conductivity of the aqueous solution of the compounds 1 and 3

"你说话我的好人欢祝春和女子是是我们的

SOV/78-3-9-6/38 On the Isomerism of the Dihydroxo-Diamino-Dichloride of Tetravalent Platinum

> it is demonstrated that the hydroxo-group has a slight transeffect. The investigation of the dependence of the pH-value and the molecular electric conductivity of the hydroxo-compounds on time indicates that no transition from the hydrox:group to the aquo-group takes place in the hydration. In the interaction of dihydroxo-diamino-dichloride platinum-(IV) o.m. plexes with acids no isomerization occurs. In the interaction of (NH3)2(C1NO3)3Pt with NaOH a modification in the structure of the molecules occurs. This effect was ascertained by determining the solubility of (NH₃)₂(ClOH)₂Pt. From the interaction of the compounds 2 and 3 with NH_3 it becomes evident that the compound $(NH_3)_2(ClOH)_2$ Pt was prepared from $(NH_3)_2(OHNO_3)_2$ P>. From the compound (NH₃)₂(ClNO₃)₂Pt the compound (NH₃)₂(ClOH₃)₂F² is formed which belongs to the class of polynuclear compounds with oxygen bridges and water of crystallization. There are 1 figure, 17 tables, and 5 references, 5 of which are Soviet.

Card 2/3

On the Isomerism of the Dihydroxo-Diamino-Dichloride of Tetravalent Platinum

ASSOCIATION: I.O.N.Kh. Akademii nauk SSSR (I.O.N.Kh., AS USSR)

SUBMITTED: July 8, 1957

Card 3/3

AUTHORS:

Chernyayev, I. I., Krasovskaya, N. N. SOY/78-3-10-10/35

TITLE:

Some Questions on the Trans-Effect of the Hydroxy-Groups in the Complex Compounds of Quadrivalent Platinum (Nekotoryye voprosy transvliyaniya gidroksogruppy v kompleksnykh soyedineniyakh chetyrekhvalentnoy platiny)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2281-2288

(USSR)

ABSTRACT:

It is shown by the determination of the pH-value and the molecular electric conductivity of aqueous solutions of the compounds (NH₃)₂(OH)₂Cl₂Pt and (NH₃Cl)₂(OH)₂Pt that the hydroxygroups have little trans-effect. It can be seen from table 1 that not one of the trans-dihydroxo compounds (NH₃)₂(OH)₄Pt, (NH₃OH)₂(OH)₂Pt or (NH₃Cl)₂(OH)₂Pt react upon ammonia or sodium nitrite and do not exchange the hydroxy-group against bromine when potassium bromide acts on it. The hydroxy-groups, combined with highly trans-effective addenda, are variable. The process of neutralization of hydroxo-compounds is also connected with the trans-effect. The change of the pH-value as a function of

Card 1/2

SOV/78-3-10-10/35

Some Questions on the Trans-Effect of the Hydroxy-Groups in the Complex Compounds of Quadrivalent Platinum

time was analyzed in the aqueous solutions of the compounds (NH₃)₂Cl₂(OH)₂Pt, (NH₃)₂(ClOH)₂Pt and (NH₃Cl)₂(OH)₂Pt, and it was demonstrated that the pH-values of these compounds are similar to each other and do not depend on time. This effect shows that the hydration of these compounds is not connected with a transition of the hydroxy-group to the aquo-group. The determinations of electric conductivity also indicate that the hydroxy-group does not pass to the aquo-group in solving. There are 3 tables and 6 references, 5 of which are Soviet.

SUBMITTED:

May 5, 1958

Card 2/2

APPROVEDTO

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"APPROVED FOR RELEASE: Monday, July 31, 2000 504/78-4-5-11/46 On the Geometric Isomerism of the Halides of the Quadrivalent on the Geometric Isomerism (O geometric heavon isomeria platinum of the Diamine Series (O geometric heavon isomeria Chernyayev, I. I., Krasovskaya. N. N. Un the Geometric Isomerism of the Halldes of the Quadrivate of the Diamine Series (0 geometricheskoy reads) relatinum of the Diamine Series (10 geometricheskoy reads) of the Diamine Se riatinum or the plamine Series (U geometricheskoy lzomerii galogenidov chetyrekhvalentnoy platiny diamminovogo ryada) 5(2) AUTHORS: Zhurnal neorganicheskoy khimii, 1959, vol 4, Nr 5: TITLE: The three geometric isomers of Pt(NH3)2Br2Cl2. already been obtained by an earlier investigation carried their at out hy the authors (page 1 2) were aunthetized their st already been obtained by an earlier investigation carried their structure was confirmed, and several properties described. The pp 1002-1011 (USSR) out by the authors (Mers 1, 2) were synthetized, their The ture was confirmed, and several properties described. And the important properties of the important properties PERIODICAL: ture was confirmed, and several properties described. The shown chemical properties of the isomers Pt(NH3)2BT2Cl2 are shown by table 1. For the purpose of determining the structure of the isomers. the reaction with ammonia was used. The interthe isomers. by table 1. For the purpose of determining the structure of the isomers, the reaction with ammonia was used. The intertable isomers, the reaction with and NH develops according to action between Pt(NH) Br Cl and NH develops ABSTRACT: the isomers, the reaction with ammonia was used. The interaction with ammonia was used. The interaction between Pt(NH3)2BT2Cl2 and NH3 develops according to the following equations: card 1/4

On the Geometric Isomerism of the Halides of the Quadrivalent Platinum

1)
$$Br \longrightarrow AH_3$$
 AH_3 AH_3 $Br \ \mathcal{L}$

2) $AH_3 \longrightarrow AH_3$ $AH_3 \longrightarrow AH_3$

Card 2/4

507/78-4-5-11/46

On the Geometric Isomerism of the Halides of the Quadrivalent Platinum of the Diamine Series

In the interaction between Pt(NH₃)₂Br₃Cl₂ and NaOH₂ the following nitrito-compounds were obtained: (NH₃)₂BrNO₂ClNO₂Pt, (NH₃)₂(BrNO₂)₂Pt and (NH₃Cl)₂BrNO₂Pt. The chemical analyses of the separated products (Tables 1, 2) showed that the interaction between Pt(NH₃)₂Br₂Cl₂ and NaNO₂ develops in complete accordance with the principle that by the action of halides mainly trans-configurations are formed according to the following equations:

(NH₃)₂Br₂Cl₂Pt + 2H₂O \Longrightarrow [(NH₃)₂BrH₂OCl₂Pt] + Br + H₂O \Longrightarrow [(NH₃)₂BrH₂OClH₂OPt]²⁺ + Br + Cl , (NH₃)₂(BrCl)₂Pt + 2H₂O \Longrightarrow [(NH₃)₂BrH₂OCl₂Pt] + + Cl + H₂O \Longrightarrow (NH₃)₂(BrCl)₂Pt + 2H₂O \Longrightarrow [(NH₃)₂BrH₂OCl₂Pt] + + Cl + H₂O \Longrightarrow [(NH₃)₂(BrCl)₂Pt + 2H₂O \Longrightarrow [(NH₃)₂BrH₂OCl₂Pt] + + Cl + H₂O \Longrightarrow

Card 3/4

On the Geometric Isomerism of the Halides of the Quadrivalent Platinum of the Diamine Series

THE REPORT OF THE PROPERTY OF

In the interaction of (NH₃)₂Br₂Cl₂Pt and (NH₃)₂(Br₂Cl)₂Pt with AgNO₃ nitrate compounds are formed. Cis-diamine (NH₃Cl)₂ Br₂Pt reacts with AgNO₃ with a formation of (NH₃Cl)₂BrOHPt.

The solubility of the isomers Pt(NH₃)₂Br₂Cl₂ was determined, and it was found that the symmetric trans-diamine (NH₃)₂Br₂Cl₂Pt is more easily soluble and that the cis-isomer (NH₃Cl)₂Br₂Pt is more easily soluble. The diammine dichlore dibromides of quadrivalent platinum belong to the class of non-electrolytes. The isomer (NH₃)₂Br₂Cl₂Pt becomes hydrated more quickly than (NH₃)₂(BrCl)₂Pt. The hydration of (NH₃Cl)₂Br₂Pt leads to the formation of binary electrolytes. Investigations of the con-Pt(NH₃)₂Br₂Cl₂ and the solubility of this product are given by tables 2, 3, and 4. There are 5 tables and 5 references, February 8, 1958

SUBMITTED: Card 4/4

AUTHORS: Chernyayev, I. I., Krasovskaya, N. N.

TITLE: On the Cis-triammines of Quadrivalent Platinum (O tsis-triammine chetyrekhvalentnoy platiny)

PERIODICAL: Zhurnal neorganicheskoy khimii; 1959, Vol 4, Nr 5, pp 1012-1017 (USSR)

ABSTRACT: The hitherto unknown nitrate and chloride of the cis-isomer of triammino-trichloro-platinum (NH₃Cl)₃PtCl and (NH₃Cl)₃PtNO₃ were prepared, their structure confirmed, and some of their properties investigated. The reaction of the interaction of (NH₃Cl)₂Cl₂Pt with a mixture of CH₃COONH₄ and NH₄OH was in-

vestigated and the compound (NH₃Cl)₂PtCl was isolated. In the interaction (NH₃Cl)₂.(OH)₂Pt with a mixture of (NH₄)₂CO₃ and NH₄OH the compound (NH₃Cl)₂(NH₃OH)PtCl is formed. For the purpose of confirming the cis-structure of (NH₃Cl)₃PtCl and (NH₃Cl)₃PtNO₃ the reduction of those compounds with exalic

acid and zinc was carried out in a hydrochloric acid medium.
Oxalic acid exercises no reducing effect upon this compound.

Card 1/2 The analyses of the reduction products of (!H C1) Pt1103 and

On the Cis-triammines of Quadrivalent Platinum SOV/78-4-5-12/46 (NH2C1)PtCl with oxalic acid and zinc are given by table 2. Under the action of AgNO3, (NH3C1)3PtNO3 is converted into nitrate, and (NH3Cl)3PtNO3 goes over into the corresponding chloride in the course of re-crystallization. The solution (NH3C1)3PtNO3 forms no precipitation with AgNO3. Only after having stored for many hours does a weak opalescence occur in the solution. Experiments show that the configuration (NHzCl) Pt is very stable. By determination of molecular electric conductivity it is shown that the cis isomers of the triammines are binary electrolytes. The interaction of (NH3Cl)3PtCl with AgNO3 is shown by figure 3. The solubility of (NH3C1)3PtC1, (NH3C1)3PtNO3, (NH3)2.(NH3C1)2PtCl2 and (NH3Cl)2Cl2Pt was determined, and results are shown by table 4.

Table 1 shows the chemical reactions of the compounds formed with various agents. There are 4 tables and 6 references,

THE REPORT OF THE PROPERTY OF

SUBMITTED:

February 8, 1958

5 of which are Soviet.

Card 2/2

5.2120

68106 sov/78-5-1-8/45

5-(2) AUTHORS: Chernyayev, I. I., Krasovskaya, N. N.

TITLE:

On the Geometrical Isomerism of Diammingtetrahydroxoplatinum. IV

PERIODICAL:

ABSTRACT:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 1, pp 39 - 47

(USSR) In this paper the authors continue their investigation of the transeffect of the hydroxyl group in complex compounds of Pt(IV).

They investigated the two theoretically possible isomers

OH OH NH3 OH NH3 OH , the analysis data

 $Pt(NH_3OH)_2(OH)_2$

P+(NH3)2(OH)4

of which are shown in tables 1,2. The reaction of the two isomers on heating with concentrated ammonia or NaNO₂ was investi-

gated to prove the fact found earlier that the OH groups are passive on the axes OH-Pt-OH and NH3-Pt-OH. No compounds with

Card 1/3

CIA-RDP86-00513R000826210(**APPROVED FOR RELEASE: Monday, July 31, 2000**

On the Geometrical Isomerism of Diamminotetrahydroxo- SOV/78-5-1-8/45 platinum.IV

more than 2 ammino groups and no nitro compounds, respectively, were obtained even after a long treatment. In acid media, however, the OH groups easily pass over into aquo groups which are considerably mobile and are easily replaced by Cl, Br, or NO, (Tables 6-8), the sequence of substitution depending on the position of the group. The compounds Pt(NH₃OH)₂(NH₃Cl)Cl₂ and Pt(NH₃OH)₂Cl₂ were obtained by treatment with HCl (Table 9). The structure of these compounds was determined by reaction with HBr (Table 10). Since no dibromides but only the tribromide Pt(NH₃)₂B₃Cl and the tetrabromide Pt(NH₃)₂Br₄ were formed, the hydroxyl group is supposed to have a somewhat greater transeffect than the NH₃ group. Table 11 shows the solubility of the isomers Pt(NH₃OH)₂(OH)₂ and Pt(NH₃)₂(OH)₄. Tables 12, 13 show the dependence of the electrical conductivity of these two compounds

Card 2/3

68196

On the Geometrical Isomerism of Diamminotetrahydroxo- SOV/78-5-1-8/45 platinum.IV

on the age and the dilution of the solutions. These measurements were made by <u>V. A. Tsingister</u>. Both compounds are non-yelectrolytes. The authors mention I. A. Chugayev. There are 13 tables and 4 references, 3 of which are Soviet.

SUBMITTED:

October 26, 1958

Card 3/3

68220

- (2) - (0)

AUTHORS:

S/078/60/005/02/006/045

Chernyayev, I. I., Krasovskaya, H. N.

TITLE: Geometric Isomers of Diamminohydroxot ichloroplatinum (IV)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 2, pp 271-279

(USSR)

ABSTRACT: The paper reports on the preparation of three isomeric com-

pounds (NH₃)₂Cl₂ClOMPt, (NH₃Cl)₂ClOMPt, and (NH₃Cl)NH₃OHCl₂Pt which contain the coordinate Cl-Pt-OH, from the corresponding dihydroxo compounds by dropwise addition of the calculated quantity of HCl. The maximum yield was 30%. The data of the analyses are summarized in table 1. The structure of the isomers was determined by reduction with oxalic acid (Table 2) and by bromination with excess HBr (Table 3). The reaction with NH₃, NaNO₂, and AcNO₃ (Tables 4-6) indicated that the hydroxyl

groups being in trans-position to a ligand with considerable trans-effect are readily substituted. In acid medium, the hydroxyl groups are easily transformed into aquo ions, with the aquo group being substituted by the acid anion. This reaction aquo group being substituted by the acid anion. This reaction

aquo group being substituted by the acid anion. This reaction that the country of the state of the acid anion. This reaction of the state of the acid anion. This reaction of the state of the acid anion. This reaction of the acid anion.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100

68220

Geometric Inomers of Diamminohydroxotrichlore platinum (IV)

1, 0/11/60/005/02/006/045 .. CO4/ B016

structure of the compounds with MHO was confirmed by reaction with NH3 (Table 11). Table 12 gives the electrical conductivity

and pH of the solutions of the monohydrexo-, dihydrexo-, tri-hydrexo-, and tetrahydrexo compounds. All isomers of the compounds $Pt(NH_{\frac{1}{2}})_2Cl_2OH$, $Pt(NH_{\frac{3}{2}})_2Cl_2(OH)_2$, $Pt(NH_{\frac{1}{2}})_2(OH)_3Cl$, and Pt(NH3)2(OH)4 are non-electrolytes. The authors quote a paper

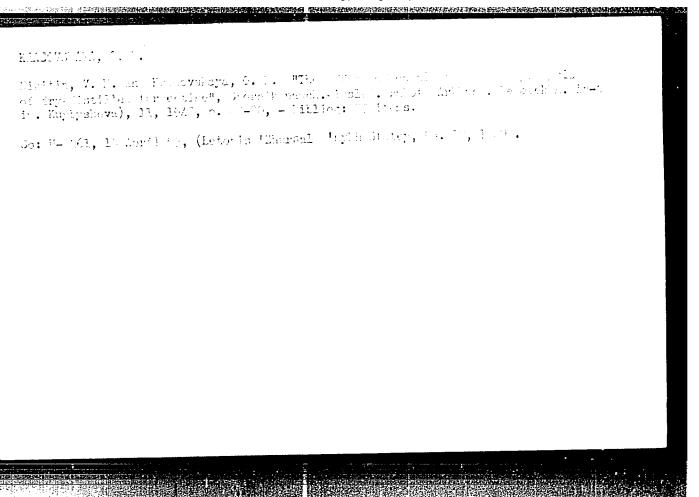
by A. A. Grinberg and Yu. P. Mikhel's (Ref 2). There are

12 tables and 2 Soviet references.

SUBMITTED:

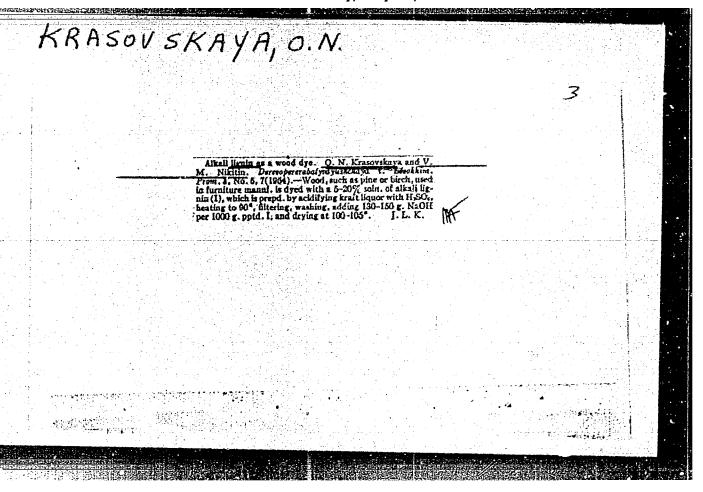
October 29, 1958

Card 2/2



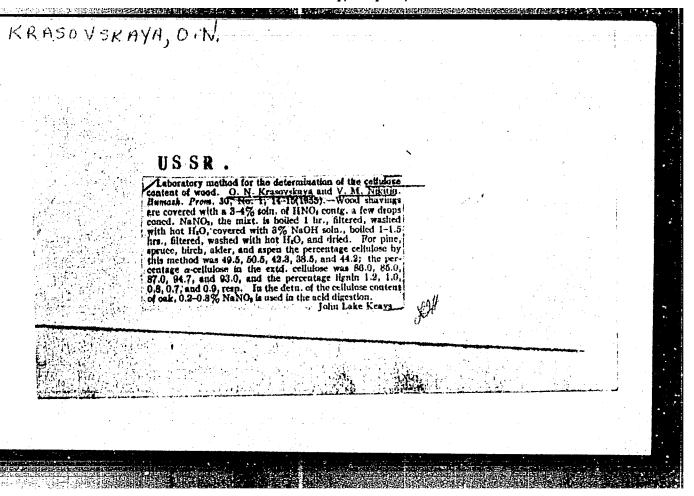
- 1. KRASOVKSAYA, O. N.: NIKITIN, V. M.
- 2. USSR (600)
- 4. Lignin
- 7. Acidification of lignin by oxygen. Bumprom. 27 no. 11 1952

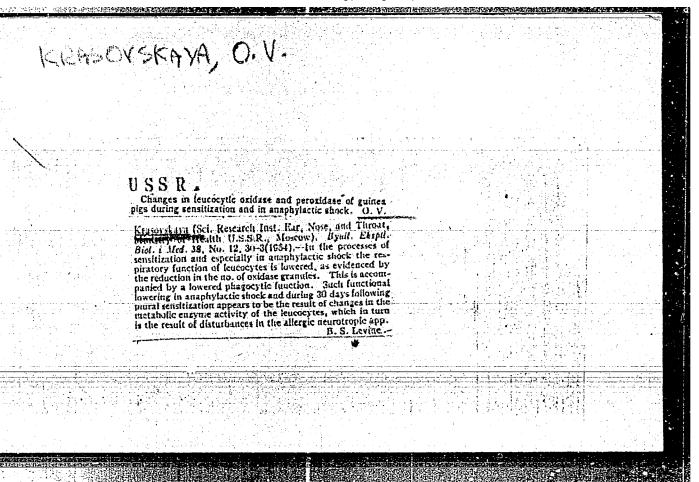
9. Monthly Listoff Russian Accessions, Library of Congress, February 1953. Unclassified.



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210





YUNIYEV, G.S.; PRILEPKO, M.Ye.; Prinimali uchastive: KRASGYMAYA, S.I., studentka; RACHKOVSKAYA, I.V., studentka; RESHETNIKOVA, I.L., starshiy laborant

Age-related dynamics of cardiac activity in laboratory mammals according to electrocardiographic data. Report No.1: Atrioventricular conduction interval and the heart rhythm. Vop. fiziol. chel. i zhiv. no.1:31-46 '60. (MHA 14:10)

1. Kafedra fiziologii cheloveka i zhivotnykh Belorusskogo gosudarstvennogo universiteta imeni Lenina. (ELECTROCARDIOGRAPHY) (ANIMAIS, INFANCY OF)

GRISHCHENKO, M.N., red.; KRASOVSKAYA, S.A., red.; ADERIKHEN, P.G., red.; BARABASH-NIKIFOROV, I.I., red.; VINOGRADOV, N.P., red.; IVANOV, V.A., red.; SKUF'IN, K.V., red.; SHEMYAKIN, I.Ya., red.; VOROTNIKOVA, R.V., red.; BERMGARDT, N.Ye., tekhn. red.

[Our region; articles and scketches on the nature of the native region]Nash krai; sbornik statei i ocherkov o prirode rodnogo kraia. Voronezh, Voronezhskoe knizhnoe izd-vo,1962. 48 p. (MIRA 16:4)

1. Vserossiyskoye obshchestvo sodeystviya okhrane prirody. Voronezhskoye otdeleniye.

(Voronezh Province--Natural resources)

KRASOVSKAYA, S. A.

35991 Izucheniye zhiznennogo tsikla tsvetkovykh. Rasteniy v pitomnike I v prirode v bashrirskom zapovednike. Nauch.-metod. Zapiski (Sovet ministrov rsfsr, Glav. Upr po zapovednikam,) vyp. 12, 1949, S. 38-94

SO: Letopis' Zhurnal'nykh Statey, Vol. 115, Hoskva, 1949

KRASOVSKAYA, S.A.

Plant food of Russian desmans. Zool.zhur. 32 no.3:534-538 ky-Je '53.

(MLRA 6:6)

1. Khoperskiy gosudarstvennyy zapovednik.

(Desman)

Oau	liflo	ry in	the	podded	erysimum.	Priroda 42 no.12:115-116		D '53. (MLRA 6:11)
1. Khoperskiy			sapo	vednik	(Voronezhskaya oblast').		(Lilace)	

USSR/Biology - Botany

Cord 1 Pub. 86 - 26/35

Authors Krasovskaya, S. A., and Sukachev, V. N., Academician

Title The rootless wolffia found growing in places where it was not

known to exist before

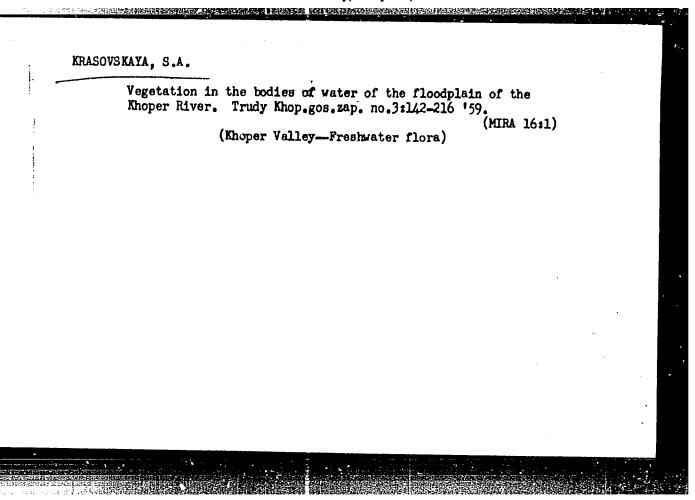
Periodical : Priroda 44/2, page 116, Feb 1955

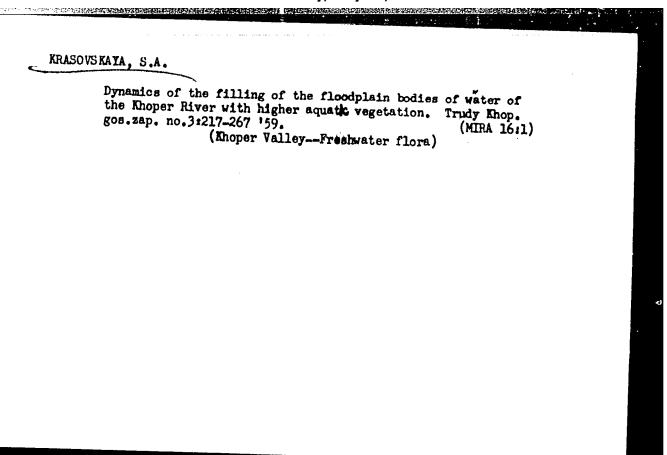
Abstract The Wolffia arrhiza (L.) Wimmer, a small rootless flowering growth most generally found in Central and Western Europo and India has now been located in the Kursk district and in the

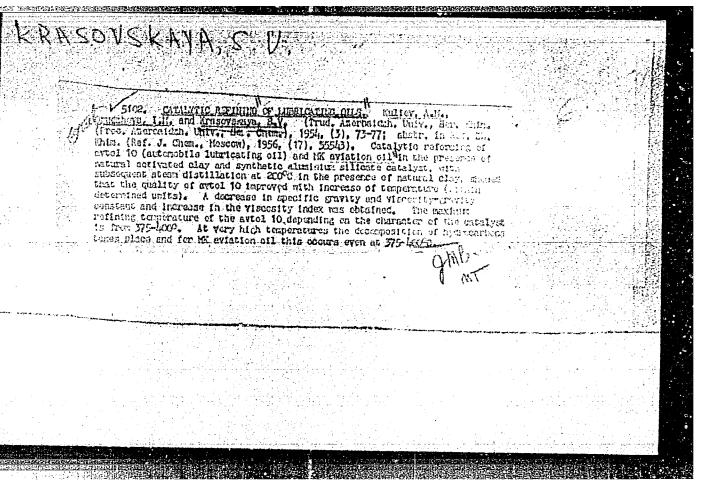
Khopr river. Three USSR references (1935 - 1952). Drawing.

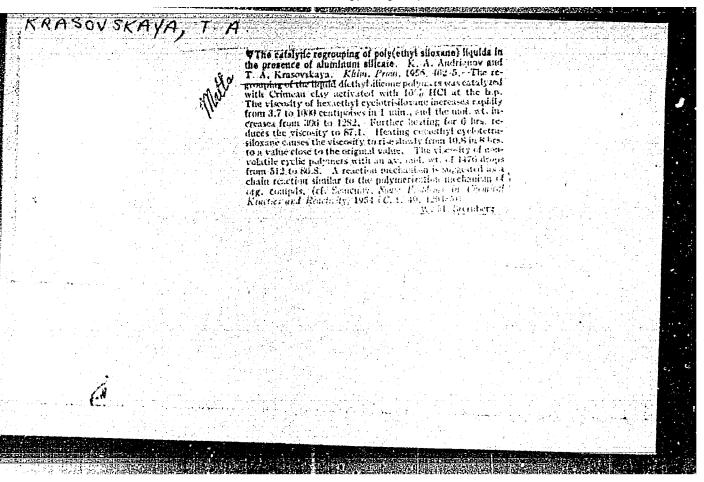
Institution:

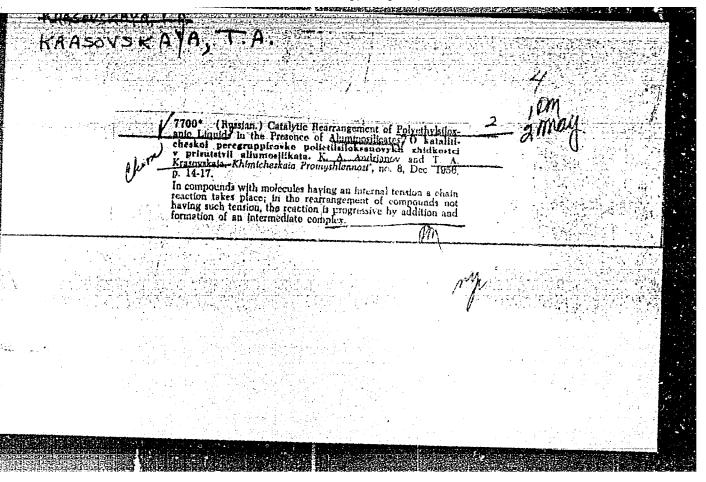
Submitted











"APPROVED FOR RELEASE: Monday, July 31, 2000 CI

CIA-RDP86-00513R000826210

79-2-47/58

PUTHORS:

Andrianov, K A.; Zubkov, I. A.; Krasovskaya, T. A.; Kleynovskaya, M. A.

TITLE:

Derivation of Polyethylsiloxanes of Linear Structure (Polucheniye

polietilsiloksanov lineynoy struktury)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 491-494 (U.S.S.R.)

ABSTRACT:

Report describes the method employed in the synthesis and separation of ethylsiloxane polymers of linear structure with 3 to 5 Si atoms in the molecule. The catalytic regrouping method in the presence of aluminum silicate was used in the derivation of ethylpolysiloxanes of linear structure. Hexaethylcyclotrisiloxane, octaethylcyclotetrasiloxane and hexaethyldisiloxane, were used as the basic substances for the synthesis. The separation of the individual polymers from the hydrolysis products was accomplished by fractionation in a rectification tower with an effectiveness of 20 theoretical plates. During the fractionation of hexaethyldisiloxane, the rate of flow of the liquid was 200-250 ml/hr and the reflux number was 10-15. Rectification of the cyclic polymers was conducted at the same rate of flow of the liquid but the reflux numbers were

Card 1/2

Derivation of Polyethylsiloxanes of Linear Structure 79-2-47/58

25-30. The properties of the products obtained are listed in the tables.

2 tables. There are 6 references, of which 1 is Slavic

ASSOCIATION:

PRESENTED BY:

SUBMITTED: February 17, 1956

AVAILABLE: Library of Congress

Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

KRASOVSKAYA, T.A.

7: -2-11/64

AUTHORS:

Andrianov, K. A., Levshuk, M.Ya., Golubtsov, S.A., and

Krasovskaya, T.A.

TITLE:

On the Common Hydrolysis of Mono- and Trifunctional Alkyl(Aril) Chlorine Silanes (O sovmestnom didrolize mono- i trifunktsional)

nykh alkil(aril) khlorsilanov)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 333 - 336 (USSR)

ABSTRACT:

The synthesis of most polymeric organosilicon compounds of the type of polyorganosiloxanes takes place by means of a common hydrolysis of two, sometimes more, monomeric organosilicon compounds - alkylor alkylor lorosilanes or substituted others of orthosilicic acid. It is usually assumed that in a hydrolysis of mixtures of two alkylohorosiloxanes a polymeric product of the common hydrolysis of these compounds forms. The authors found that the reaction often proceeds in the direction of a mixture of two polymers and not in the direction of the formation of a product of common hydrolysis.

 $(x+2)(c_2H_5)_3$ Sic1 + $xRSic1_3^{H_2O_{--}}$ $(c_2H_5)_3$ Sio $(c_2H_5)_3^{H_5}$ Si $(c_2H_5)_3^{H_5}$

Card 1/2

On the Common Mydrolymin of Mono- and Prifunctional Alkyl (Aryl) Chlorine Silanes

where
$$R = C_6 H_5$$
 or $C_6 H_4 C1$.
 $2(C_2 H_5)_3 SiC1 = \frac{1}{2} - (C_2 H_5)_3 SiCSi(C_2 H_5)_5$ (2)
 $RSiCl_3 = \frac{1}{2} - \frac{1}{2} - \frac{1}{2} RSiO_{1.5})_x$ (3)

(3)

As the test showed, neither the change of the molar interactions and the acid content of the medium nor the use of one or the other solvent in the hydrolysis were capable of suppressing reactions (2) and (3) and leading the process toward the formation of a common product of hydrolysis according to reaction (1). It was assumed that the temperature coefficients of the reaction velocity are different. A test confirmed this assumption and showed that the performance of the hydrolysis at higher temperatures promotes the production of products of the com on hydrolysis, but not the mechemical mixture of two polymers. There are 2 figures, 2 tables,

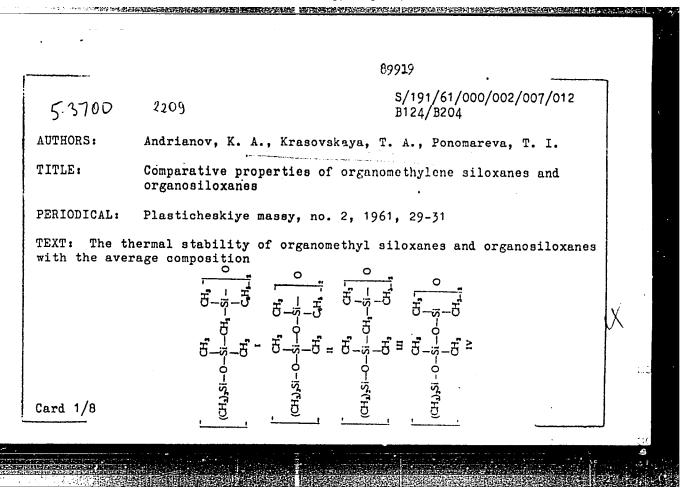
SUBMITTED:

January 19, 1957

AVAILABLE:

Library of Congress

Card 2/2



S/191/61/000/002/007/012 B124/B204

Comparative properties of organo...

in air was compared. Fig. 1 shows the dependence of the viscosity of the compounds I and II upon the heating time at 250°C. Fig. 2 shows the change in viscosity of the compounds III and IV with the heating time at 200°C. Fig. 1 shows that the viscosity in the case of heating at 250°C grows more quickly with compound I than with compound II. The results obtained by the analysis of the chemical composition of the liquids investigated (Table) show that in the case of heating, the molecular weight and the silicon content in compounds with a methyl siloxane chain (I and III) increase more quickly than in compounds with the siloxane chain (II and IV) which characterizes the destruction processes in the organic part of the molecule. The organomethyl silcxanes (I and III) are also less resistant to thermooxidation. The substitution of the oxygen of the methylene group in the molecule chain of organosiloxane weakens the shielding effect of the siloxane bond in comparison to the silicon-organic frame groups, which leads to a decrease of thermooxidation stability of the frame groups. The temperature coefficient of viscosity grows in the interval of from +50 to -30°C considerably in the case of substitution of oxygen in the siloxane

Card 2/8

89919

S/191/61/000/002/007/012 B124/B204

Comparative properties of organo...

chain by the group -CH₂-; in compound I it equals 330 and in compound II 35 (Fig. 3). Compound III shows the same temperature dependence of viscosity. The absolute value of the viscosity coefficient in the temperature interval of from +50 to -50°C is, however, considerably lower, in compound III it amounts to 12.9 and in compound IV to 7.65 (Fig. 4). As initial compounds, chlorosilane, dimethylchloromethylchlorosilane, dimethyldichlorosilane and methylphenyldichlorosilane were taken. The compound with a methylenesiloxane chain is obtained by means of the reactions:

 $\begin{array}{c} \text{SiCl} + (\text{CH}_3)_2\text{CH}_2\text{CISiCl} \xrightarrow{\text{H}_2\text{O}} \\ \rightarrow (\text{CH}_3)_2\text{SI} - \text{O} - \text{SI}(\text{CH}_3)_2\text{CI}_2\text{CI} + 2\text{IICl} \\ \text{V} \\ \text{(CH}_3)_2\text{SIOSI}(\text{CH}_3)_2\text{CI}_2\text{CI} + \text{Mg} \xrightarrow{} (\text{CII}_3)_3\text{SIOSI}(\text{CH}_3)_2\text{CII}_2\text{MgCI} \\ \text{(CH}_3)_2\text{SIOSI}(\text{CH}_3)_2\text{CI}_2\text{MgCI}_2 + (\text{CH}_3)_2\text{SICI}_3 \xrightarrow{} \\ \rightarrow (\text{CH}_3)_2\text{SIOSI}(\text{CH}_3)_2 - \text{CH}_3 - \text{SI}(\text{CH}_3)_2\text{CI}_2 + \text{MgCI}_2 \\ \text{VII} \\ \end{array}$

Card 3/8

Comparative properties of organo...

S/191/61/000/002/007/012 B124/B204

Magnesium-organic compound VI is not only formed in sulfuric ether but also in toluene, however, the reaction to the compounds VII and VIII in toluene, does not develop quantitatively in toluene also if the reaction time of 8 (in ether) is extended to 13 hr in the reaction with dimethyldichlorosilane and to 30 hr in the reaction with methylphenyldichlorosilane. There are 4 figures, 1 table, and 3 non-Soviet-bloc references.

 $(CH_3)_3SI-O-Si(CH_3)_3CH_2MgCl_+CH_3C_6H_3SiCl_3 \longrightarrow (CH_3)_3Si-O-Si(CH_3)_3CH_3SiCH_3C_6H_3Cl+MgCl_3$ viii

2(CH₃)₃SI₂O₂SI(CH₃)₃CH₃SICH₃C₆H₃CI + H₃O₄ [(CH₃)₃SI₂O₂SI(CH₃)₃CH₂SICH₃C₆H₃]₂O₂HCI

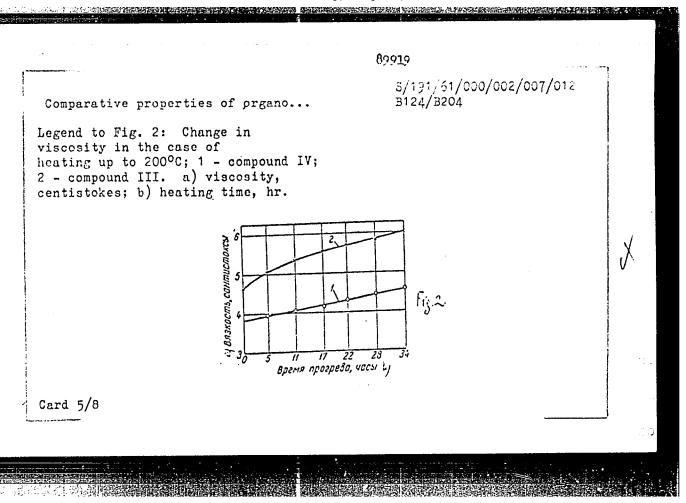
250°C; 1 - compound I;

Legend to Fig. 1: Change in viscosity in heating up to

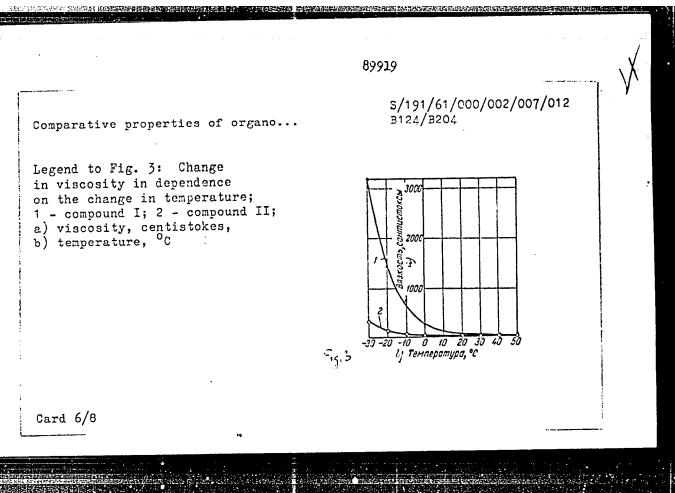
2 - compound II; a) viscosity, centistokes; b) heating time, hr.

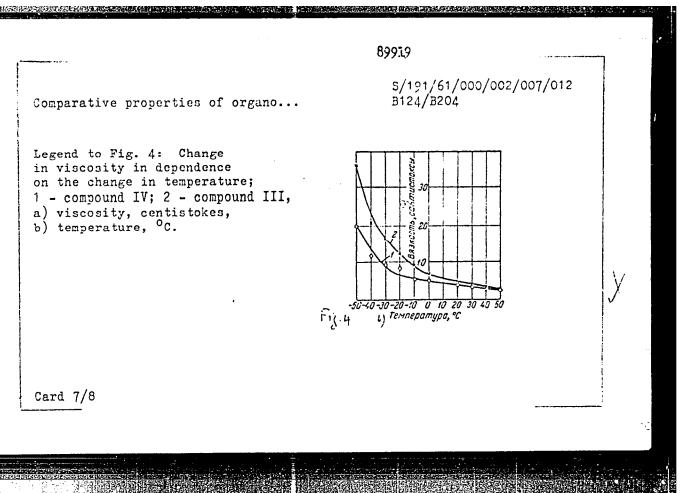
Card 4/8

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210





Comparative properties of organo...

S/191/61/000/002/007/012 B124/3204

Legend to the table: Change in physicochemical properties by temperature: 1) Compounds, 2) factors, 3) molecular weight, 4) silicon content; %, 5) viscosity at 20°C, cst; I and II: values in the enumerator - before heating, values in the nominator - after heating to 250°C; III and IV: after heating to 200°C.

2. Показатели	/) Соединення			
	I*	II.	111	17**
Молекулярный вес 3 . Содержание креминя, % .4. Вязкость при 20°, ссм	621/988 27,38/28,94 30,0/88,8	568/752 27,34/27,00 20,3/35,6	433/454 35,45/36,16 4,66/6,03	508/526 35,82/36,01 3,88/4,54

Card 8/8

1209 158116

\$/191/61/000/006/003/005 B101/B215

AUTHORS:

Andrianov, K. A.. Krasovskaya, T. A., Ponomareva, T. I.

TITLE:

Catalytic transformations of a mixture consisting of the products of cohydrolysis of methylphenyl dichlorosilane and

trimethylchlorosilane

FERIODICAL:

Plasticheskiye massy, no. 6, 1961, 21-24

The cohydrolysis following the formula is said to be a suitable method for obtaining liquid polyorganosiloxanes: 2R3SiX + nR2SiX2 + (n + 1) $H_2O \longrightarrow R_3Sio[SiR_2O]_nSiR_3 + 2(n+1)HX$ (I). Besides, however, a parallel condensation of the individual hydrolysis products takes place under the formation of cyclic compounds: $mR_2^!SiX_2 + mH_2O \longrightarrow [R_2^!SiO]_m + 2mHX$ (II) and of disiloxane: $2R_3SiX + H_2O \longrightarrow R_3SiOSiR_3 + 2HX$ cyclic compounds and disiloxane into linear compounds, the mixture of cohydrolysis is treated with various catalysts. As to polymethylsiloxanes, these reactions have already been studied. In the present paper the action

Card 1/8

22738 S/191/61/000/006/003/005 B101/B215

Catalytic transformations of a ...

of catalysts on the cohydrolysis mixture of polymethyl-phenyl siloxanes has been studied. The action of H_2SO_A , KOH, $FeCl_3.6H_2O$, $Al_2(SO_4)_3.18H_2O$, and natural aluminosilicate (treated with HCl) upon the products of cohydrolysis of methyl-phenyl dichlorosilane and trimethyl chlorosilane (molar ratio of 5:2) has been examined. Cohydrolysis took place at 60°C. The product was neutralized, and the content of Si and C_6H_5 in the fraction 180-290°C was determined. Fig. 1 shows the change of viscosity under the action of catalysts; Table 1 gives the analysis of the products of catalytic transformation. The fact that viscosity at first increases rapidly when using KOH is explained by the intensive polymerization of cyclic compounds. No constant viscosity was attained for aluminosilicate, and the formation of benzene, i.e., separation of the phenyl radical from siloxane, was observed. With FeCl₃ and Al₂(SO_A)₃, the cyclic compounds were not completely rearranged at 20°C. A temperature increase to 60°C accelerated the reaction but then separation of phenyl radicals occurred. With 90% H2SO4 constant viscosity was attained after 4 hr. Here, complete rearrangement occurred. According to its molecular weight, the polymer Card 2/8

22738 S/191/61/000/006/003/005 B101/B215

Catalytic transformations of 'a ...

corresponded to nonamethyl-triphenyl pentasiloxane. With 80% H₂SO₄, constant viscosity was only attained after 18 hr; with 40 and 60% acid, viscosity increased continuously and the content of cyclic compounds was only slightly reduced. 94.6% acid caused the formation of linear polymers, but led to the separation of phenyl radicals. Table 3 gives the results obtained with 90% H₂SO₄ at various temperatures and various amounts of catalysts. As regards their activity, the catalysts examined range in the following order: H₂SO₄ > KOH > FeCl₃.6H₂O > Al₂(SO₄)₃.18H₂O > aluminosilicate. There are 3 figures, 3 tables, and 6 references: 1 Soviet-bloc and 5 non-Soviet-bloc. The two most important references to Englishlanguage publications read as follows: D. F. Vilcock, J. Am. Chem. Soc., 69, 477 · (1947); R. N. Lewis, J. Am. Chem. Soc., 70, 1115 (1948).

Card 3/8

S/191/62/000/009/005/012 B101/B144

AUTHORS:

Kleynovskaya, W. A., Sobolevskiy, M. V., Krasovsk.ya, T. A.,

Zharkova, N. M.

TITLE:

Dependence of the composition and properties of liquid

polyorganosiloxanes on their mode of production

PERIODICAL: Plasticheskiye massy, no. 9, 1962, 19 - 24

TEXT: The composition and properties of polymethyl-phenyl siloxanes got by cohydrolysis and subsequent catalytic regrouping in the presence of Kil clay were studied as follows: Aqueous solutions of methyl-phenyl dichlorosilane, dimethyl dichlorosilane and trimethyl chlorosilane in the molar ratio 3:1:2.2 were cohydrolyzed at 60-65°C. The cyclic byproducts developed were regrouped with 8% Kil clay as catalyst at 50°C (6 hr) into linear compounds. The reaction product was fractionated and investigated. Predominantly linear polymers having the general formula: $(CH_3)_3 Si[OSiCH_3C_6H_5]_n [OSi(CH_3)_2]_m OSi(CH_3)_3$ resulted. In the products distilled within the limits of 380°C/0.1-0.5 mm Hg, n was 0,1,...6; m was 0,1,2; n + m was 0,1,...7. The content of cyclic compounds did not exceed Card 1/2

S/191/62/000/009/005/012 B101/B144

Dependence of the composition ...

4%. The product contained 1.2% hexamethyl disiloxane, 1.8% α , ω -hexamethyl-polydimethyl siloxanes, 26% α , ω -hexamethyl-polymethyl-phenyl siloxanes. The 23% of nondistillable residues seem to be composed of high-boiling polymers of the latter type. For 11 compounds of the given general formula, 10 of which were synthetized for the first time, b.p. (°C/mm Hg), softening point (°C), n_D^{20} , d_A^{20} and η_{20} (centistokes) are given respectively as follows: n=1, m=0: 78-79/0.5, -, 1.4470, 0.9118, 2.55; n=m=1: 87-88/0.5, -75, 1.4393, 0.9244, 3,75; n=1, m=2: 105/0.5, -95, 1.4363, 0.9355, 3.85; n=2, m=0: 130-132/0.5, -75, 1.4775, 0.9761, 7.05; n=2, m=1: 147-149/0.5, -70, 1.4670, 0.9786, 7.77; n=m=2: 162/1.0, -60, 1.4605, 0.9807, 8.50; n=3, m=0: 180/0.5, -60, 1.4950, 1.0132, 15.71; n=3, m=1: --*, -55, 1.4858, 1.0132, 15.90; n=4, m=1: --*, -60, 1.4985, 1.0331, 29.17; n=4, m=2: --*, -60, 1.4930, 1.0327, 27.55; n=5, m=2: --*, -55, 1.4987, 1.0472, 43.86. "= molecular distillation. Thus, a regular connection exists between the physicochemical properties and the content of dimethyl- and methyl-phenyl siloxane links. There are 5 figures and 4 tables. Card 2/2

L 10765-63 EWP(j)/EPR/EPF(c)/EWT(m)/EPF(n)-2/FCS/T-2/EDS/ES(s)-2/ES(v)-AEDC/AFFTC/ASD/SSD--Ps-li/Pc-li/Pr-li/Pt-li/Pe-li--RM/WW/MAY
ACCESSION NR: AP3003305 S/0191/63/000/007/0022/0024

AUTHOR: Ponomareva, T. I.; Krasovskaya, T. A.; Sobolevskiy, M. V.

TITLE: Synthesis and study of the properties of bis(triorganosilyl)benzenes

SOURCE: Plasticheskiye massy, no. 7, 1963, 22-24

TOPIC TAGS: synthesis, bis(triorganosilyl)benzenes, bis(methyldiphenylsilyl)benzene, bis(dimethylphenylsilyl)benzene, dibromobenzene, chlorotriorganosilanes, Grignard reaction, hexaorganosiloxanes, solubility, boiling point, melting point, thermal-oxidative stability

ABSTRACT: Four bis(triorganosily1)benzenes (I); including two new compounds — bis(methyldiphenylsily1)benzene (m. 196-1970) and bis(dimethylphenylsily1)benzene (m. 590) — have been synthesized in yields of 16 to 49% by the Grignard reaction from dibromobenzene and chlorotrimethyl-, chlorodimethylphenyl-, chloromethyl-diphenyl-, or chlorotriphenyl silanes. The reactions proceed in one step at 140-1600. All I are white, crystalline solids which can be precipitated from benzene solutions with absolute alcohol. The solubility of I in organic solvents drops with an increase of the number of phenyl groups: bis(triphenylsily1)benzene Card 1/2

L 10765-63 ACCESSION NR: AP3003305

3

is insoluble in the common organic solvents at room temperature. The properties of I were compared with those of the respective hexacrganodisiloxanes (II). It was shown that I have higher boiling and melting points than II and that they are less soluble in many solvents. The thermal-oxidative stability of II exceeds that of I at 200 and 250C but is lower at 300 and 350C. "The authors express their gratitude to T. I. Pel'ts and K. S. Frolova for their assistance in determing the thermal-oxidative stability of the compounds." Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Jul63

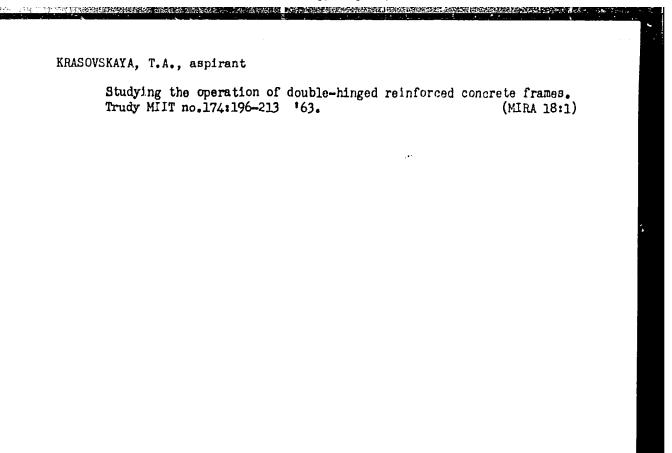
ENCL: 00

SUB CODE: 00

NO REF SOV: 005

OTHER: 005

Card 2/2



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210

ACCESSION NR: AP4039944

5/0191/64/000/006/0021/0022

AUTHOR: Ponomareva, T. I.; Krasovskaya, T. A.; Sobolevskiy, M. V.

TITLE: Investigation of the properties of polymers with alternating siloxane and silphenylene units.

SOURCE: Plasticheskiye massy*, no. 6, 1964, 21-22

ciloxanobenzene containing polymer, triorganochlorosilane methylphenyldichlorosilane condensate, triorganochlorosilane condensate, triorganochlorosilane benzene condensate, hydrolytic condensation, viscosity temperature coefficient, viscosity, hardening temperature, thermal stability, thermoexidative stability, decomposition lubricating ability, coefficient of friction

ABSTRACT: Properties of polymers containing alternating silexanobenzene units in the molecule were investigated. Polymers having the general structural formula:

Card 1/3

ACCESSION NR: AP4039944

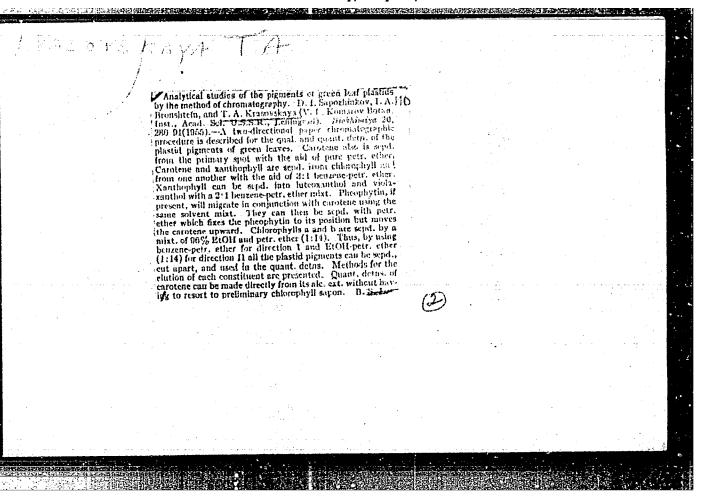
where R₃ = (CH₃)₂C₆H₅, CH₃(C₆H₅)₂; X = 0 or C₆H₁, were prepared by hydrolytic condensation of triorganochlorosilane with bis(methylphenylchlorosilyl)benzene or with methylphenyldichlorosilane and subsequent rearrangement. Introduction of the benzene ring into the methylphenylsiloxane molecule increased viscosity, temperature coefficient of viscosity, and hardening temperature of the polymers. Replacement of the oxygen between the silicon atoms by a benzene ring reduced thermooxidative stability but improved the thermal stability of the compounds: the organophenylenesiloxanes gelled in 30 minutes at 300C while the organosiloxanes remained liquid. The organophenylenesiloxanes decompose at 442-443C, 120-160C higher than the corresponding organosiloxanes. Introduction of the benzene ring into methylphenylsiloxanes produces no significant change in their lubricating properties. The friction coefficient at 100-300C has a range of 0.2-0.28 for the organophenylenesiloxanes but varies from 0.19 to 0.4 for the organosiloxanes. Orig. art. has:

Card 2/3

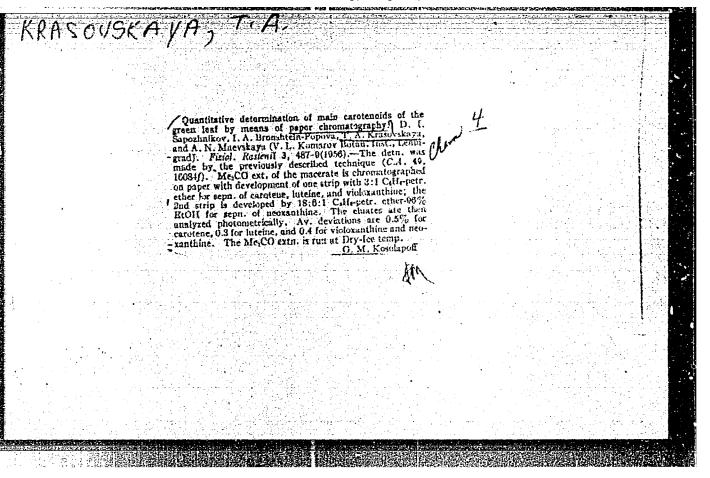
ACCESSION NR: AP4039944

where R₃ = (CH₃)₂C₆H₅, CH₂(C₆H₅)₂; X = 0 or C₆H_h, were prepared by hydrolytic condensation of triorganochlorosilane with bis(methylphenylchlorosilyl)benzene or with methylphenyldichlorosilane and subsequent rearrangement. Introduction of the benzene ring into the methylphenylsiloxane molecule increased viscosity, temperature coefficient of viscosity, and hardening temperature of the polymers. Replacement of the oxygen between the silicon atoms by a benzene ring reduced thermooxidative stability but improved the thermal stability of the compounds: the organophenylenesiloxanes gelled in 30 minutes at 300C while the organosiloxanes remained liquid. The organophenylenesiloxanes decompose at 442-443C, 120-160C higher than the corresponding organosiloxanes. Introduction of the benzene ring into methylphenylsiloxanes produces no significant change in their lubricating properties. The friction coefficient at 100-300C has a range of 0.2-0.28 for the organophenylenesiloxanes but varies from 0.19 to 0.4 for the organosiloxanes. Orig. art. has:

Card 2/3



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210



CIA-RDP86-00513R000826210 "APPROVED FOR RELEASE: Monday, July 31, 2000

KRALOVIKAYA.

SAPOZHNIKOV, D.I., KRASOVSKAYA, T.A., LUTHOR

Received 6/1957

PA - 3378

TITLE

Changes Observed in the Relation between the Main Carotinoids in the

plastids of green Leaves Exposed to Light.

(Izmeneniye sootnosheniya osnovnykh karotinoidov plastid zelenykh list'-

yev pri deystvii sveta - Russian)

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 2, pp 465-467, (U.S.S.R.)

ABSTRACT

PERIODICAL

By several research works it was shown that the oxygen eliminated on the occasion of photo-synthesis originates from water. So far, however, no certain intermediate products of this reaction were proved. Although here hypotheses on the part of the carotenoids as oxigen-transporters were expressed, a clear confirmation is still lacking. The authors applied a new method of inactivating the enzymes as well as chromatography on paper, and following the fluctuations of the relation of the 4 basic carotenoids, carotene, lutein, violoxanthin and neoxanthin in leaves of several kinds of of plants. Lamellac were cut out from leaves of cyclamens, Sakhalin-buckwheat, broad bean, dendelion and others and they were exposed to a 3H-8lamp. The different intensity light was effected by different distaces of the source of light. Lamellae which served for an experiment and as control were fixed with acetone at -780. The analysis of the carotenoids was carried out according to the methodology previously described by the authors. Illustration I shows that the content of carotene and neoxanthin stays nearly unchanged, whereas the content of lutein increases on the oc-

Card 1/2

COMMUNICATION OF THE PRODUCTION OF THE PRODUCTIO

Changes Obseved in the Relation between the Main Caro- PA 3376 tinoids in the Plastids of Green Leaves Exposed to Light.

casion of decreasing violoxanthin. This takes place in connection with an intense exposure to light. Illustration 2 illustrates the dependency of the fluctuation of the difference of the content expressed as percentages of lutein and violoxanthin on the intensity of light. Already at 5,000 lk this difference increases noticeably and attains its maximum at 0,000 lk. Further increase of the intensity of light has no influence on the difference. On the occasion of exposure to light of high intensity the sum of the content expressed as percentage of luthein and violoxanthin remains stable. Dimishing the intensity leads to the opposite effect. The phenomenon makes it possible to assume that in the green leaves there exists a system of enzymes which regulates the proportion of lutein and violoxanthin. It is possible that this system is related to the oxygen transport in the process of photosynthesis.

(4 illustrations. 4 citations from Slavic publications).

the second of th

ASSOCIATION Botanical Institute of the Academy of Science of the U.S.S.R. PRESENTED BY KURSANOV, A.L., Member of the Academy.

SUBMITTED 2.7.1956

AVAILABLE Library of Congress.

Cara 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210

Ponomarday, a.i.; Krabovakaya, T.A.; Compleycely, M.V.

Investigating the properties of jolymero with alternating siloxane and silphenylene links. Plast.massy no.6:21-22 164.

(MIRA 18:4)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100

ENT(m)/ENF(j) L 45890-66 SOURCE CODE: UR/0191/66/000/005/0018/0020 ACC NR: AP6024048 Ponomareva, T. I.; Krasovskaya, T. A.; Sobolevskiy, M. V. ORG: none TITIE: Effect of the position of aromatic groups on the properties of liquid polyorganosiloxanes] SOURCE: Plasticheskiye massy, no. 5, 1966, 18-20 TOPIC TAGS: polysiloxane, organosilicon compound, chain polymer ABSTRACT: The properties of polymers containing aromatic groups were studied in relation to the position of these groups in the molecular chain. The polymers studied were polydimethylphenylenesiloxanes of the average composition $(CH_{3})_{2}SIO = \begin{bmatrix} CH_{3} & CH_{3} & CH_{3} \\ -SIO & -SIO \\ CH_{3} & -SIO \end{bmatrix} = \begin{bmatrix} CH_{3} & CH_{3} \\ -SIO & -SIO \\ -CH_{3} & CH_{3} \end{bmatrix} = SI(CH_{3})_{2}(I)$ and polydimethylmethylphenylsiloxanes of the average composition ĊĤ, (CH,),SIO--Si(CH₂), ŠIO. 678.84.01:53/54 UDC:

L 45890-66

ACC NR: AP6024048

where n is equal to 3, 6, 10 and 23 mole \$, and the average degree of polymerization is 30. It is shown that the physicochemical properties of the polymers (solidification temperature, viscosity, activation energy of viscous flow, d₄²⁰, n₂²⁰) change somewhat with changing position of the benzene rings in the molecular chain. The viscosity of polymers with phenyl radicals on the sides increases more slowly during thermal oxidation than does that of polymers with benzene rings in the main chain (for the same number of benzene rings). This is due to the smaller number of the most readily oxidizable methyl radicals and to the screening effect of benzene rings in the side groups. The presence of benzene rings between the silicon atoms hinders the depolymerization of siloxane chains because of the difficulty of rupture and formation of low-molecular cyclic dissociation products. Orig. art. has: 1 figure and 5 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 006

Card 2/2 1C

APPROVED FOR RELEASE: Monday, July 31, 2000

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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

ACC NR. AP7002657

 (N_iN)

SOURCE CODE: UR/0191/07/000/Calre 12/3025

AUTHOR: Koroleva, T. V.; Krasovskaya, T. A.; Sobolevskiy, M. V.; Gornet . L. V.; Ruskin, Yu. Ye.

ONG: none

TITLE: Lubricating properties of polymethyl(chlorophenyl)siloxanes

SOURCE: Plasticheskiye massy, no. 1, 1967, 22-25

TOPIC TAGS: lubricant, silicone lubricant, polymethylchlorophenylsiloxane

ABSTRACT:

The effect has been studied of the chlorine content in the phenyl radical and of the chlorophenyl group content of polymethyl(chlorophenyl)siloxanes on their lubricating properties. Polymers I, II, or III, prepared by hydrolytic condensation and subsequent rearrangement in the presence of sulfuric acid were used:

I.
$$(CH_3)_3SiO - Si - O - Si - O - Si(CH_3)_3$$
, rec $n=0-4$

Card 1/3

UDC: 673.84.06:621.892.28

2/3

Card

ACC NR AP7002657 11. (CH₂),SIO 111. (CH,),SIO when m=0The lubricating properties were determined on a four-ball apparatus under nitrogen from the diameter of the wear pit on the lower ball, the friction coefficient at various loads, and the character and magnitude. of the friction force. The test temperature was 2000 (at this temperature the viscosity of I, II, and III was virtually the same). It was found that for all three polymers, optimum lubricating properties are produced by the introduction of four chlorine atoms per polymer molecule, i.e., at a 16-17%orine content. At this chlorine content, the poorest lubricating properties are obtained when all four Cl atoms are concentrated in single phenyl group; such a concentration also considerably impairs thermal-oxidative stability. Polymers containing 1 or 2 Cl atoms per phenyl group have virtually the same lubricating properries. Properties, test conditions, and test results are given for I,